

# Joao Coelho

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

40  
papers

2,996  
citations

20  
h-index

43  
g-index

43  
ext. papers

3,563  
ext. citations

11.4  
avg, IF

4.77  
L-index

#	Paper	IF	Citations
40	Laser-Induced Graphene on Paper toward Efficient Fabrication of Flexible, Planar Electrodes for Electrochemical Sensing. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2101502	4.6	6
39	Inclusion of 2D Transition Metal Dichalcogenides in Perovskite Inks and Their Influence on Solar Cell Performance. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	3
38	Liquid Exfoliated SnP <sub>3</sub> Nanosheets for Very High Areal Capacity Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2002364	21.8	17
37	Solvent engineered synthesis of layered SnO for high-performance anodes. <i>Npj 2D Materials and Applications</i> , <b>2021</b> , 5,	8.8	4
36	Postsynthetic treatment of nickel/iron layered double hydroxides for the optimum catalysis of the oxygen evolution reaction. <i>Npj 2D Materials and Applications</i> , <b>2021</b> , 5,	8.8	2
35	3D MXene Architectures for Efficient Energy Storage and Conversion. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2000842	15.6	132
34	Using chronoamperometry to rapidly measure and quantitatively analyse rate-performance in battery electrodes. <i>Journal of Power Sources</i> , <b>2020</b> , 468, 228220	8.9	9
33	An outlook on printed microsupercapacitors: Technology status, remaining challenges, and opportunities. <i>Current Opinion in Electrochemistry</i> , <b>2020</b> , 21, 69-75	7.2	7
32	Quantifying the Dependence of Battery Rate Performance on Electrode Thickness. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 10154-10163	6.1	8
31	Quantifying the Effect of Electronic Conductivity on the Rate Performance of Nanocomposite Battery Electrodes. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 2966-2974	6.1	34
30	High areal capacity battery electrodes enabled by segregated nanotube networks. <i>Nature Energy</i> , <b>2019</b> , 4, 560-567	62.3	153
29	Quantifying the factors limiting rate performance in battery electrodes. <i>Nature Communications</i> , <b>2019</b> , 10, 1933	17.4	114
28	Quantifying the Trade-Off between Absolute Capacity and Rate Performance in Battery Electrodes. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901359	21.8	28
27	Low-temperature synthesis and investigation into the formation mechanism of high quality Ni-Fe layered double hydroxides hexagonal platelets. <i>Scientific Reports</i> , <b>2018</b> , 8, 4179	4.9	31
26	Synthesis and Advanced Characterisation of Layered Platelets by Self-assembly of Long-chain Amines. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 1566-1567	0.5	
25	All-printed thin-film transistors from networks of liquid-exfoliated nanosheets. <i>Science</i> , <b>2017</b> , 356, 69-73	33.3	301
24	Improving the performance of porous nickel foam for water oxidation using hydrothermally prepared Ni and Fe metal oxides. <i>Sustainable Energy and Fuels</i> , <b>2017</b> , 1, 207-216	5.8	28

23	EELS Probing of Lithium Based 2-D Battery Compounds Processed by Liquid Phase Exfoliation. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 1984-1985	0.5	
22	Lithium Titanate/Carbon Nanotubes Composites Processed by Ultrasound Irradiation as Anodes for Lithium Ion Batteries. <i>Scientific Reports</i> , <b>2017</b> , 7, 7614	4.9	12
21	Synthesis of layered platelets by self-assembly of rhenium-based clusters directed by long-chain amines. <i>Npj 2D Materials and Applications</i> , <b>2017</b> , 1,	8.8	3
20	An investigation of the energy storage properties of a 2D $\text{HfMoO}_3$ -SWCNTs composite films. <i>2D Materials</i> , <b>2017</b> , 4, 015005	5.9	15
19	A study of the charge storage properties of a $\text{MoSe}_2$ nanoplatelets/SWCNTs electrode in a Li-ion based electrolyte. <i>Electrochimica Acta</i> , <b>2016</b> , 192, 1-7	6.7	33
18	EELS probing of lithium based 2-D battery compounds processed by liquid phase exfoliation. <i>Nano Energy</i> , <b>2016</b> , 30, 18-26	17.1	6
17	A 2D graphene-manganese oxide nanosheet hybrid synthesized by a single step liquid-phase co-exfoliation method for supercapacitor applications. <i>Electrochimica Acta</i> , <b>2015</b> , 174, 696-705	6.7	39
16	Manganese oxide nanosheets and a 2D hybrid of graphene-manganese oxide nanosheets synthesized by liquid-phase exfoliation. <i>2D Materials</i> , <b>2015</b> , 2, 025005	5.9	22
15	Scalable production of large quantities of defect-free few-layer graphene by shear exfoliation in liquids. <i>Nature Materials</i> , <b>2014</b> , 13, 624-30	27	1627
14	Samarium doped glass-reinforced hydroxyapatite with enhanced osteoblastic performance and antibacterial properties for bone tissue regeneration. <i>Journal of Materials Chemistry B</i> , <b>2014</b> , 2, 5872-5881	7.3	32
13	Effect of percolation on the capacitance of supercapacitor electrodes prepared from composites of manganese dioxide nanoplatelets and carbon nanotubes. <i>ACS Nano</i> , <b>2014</b> , 8, 9567-79	16.7	82
12	Atomic scale dynamics of a solid state chemical reaction directly determined by annular dark-field electron microscopy. <i>Scientific Reports</i> , <b>2014</b> , 4, 7555	4.9	20
11	Luminescence and Time-Resolved Emission Spectra of $\text{Nd}^{3+}$ and $\text{Er}^{3+}$ : Silver Zinc Borate Glasses. <i>Solid State Phenomena</i> , <b>2013</b> , 207, 37-53	0.4	
10	Microstructural Characterization of Manganese Oxides Supercapacitors based on Liquid-phase Exfoliated for Energy Storage Applications. <i>Microscopy and Microanalysis</i> , <b>2013</b> , 19, 1530-1531	0.5	
9	Development and Characterization of Lanthanides Doped Hydroxyapatite Composites for Bone Tissue Application <b>2013</b> , 87-115		7
8	Development and Characterization of $\text{Ag}_2\text{O}$ -Doped $\text{ZnLB}$ Glasses and Biological Assessment of $\text{Ag}_2\text{O}/\text{ZnLB}/\text{Hydroxyapatite}$ Composites. <i>Journal of the American Ceramic Society</i> , <b>2012</b> , 95, 2732-2740	3.8	8
7	Structural studies of lead lithium borate glasses doped with silver oxide. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2012</b> , 86, 392-8	4.4	57
6	Structural studies of lithium boro tellurite glasses doped with praseodymium and samarium oxides. <i>Materials Research Bulletin</i> , <b>2012</b> , 47, 3489-3494	5.1	29

5	Structural and time resolved emission spectra of Er <sup>3+</sup> : Silver lead borate glass. <i>Chemical Physics Letters</i> , <b>2011</b> , 512, 70-75	2.5	7
4	Luminescence and decay trends for NIR transition (4I13/2-4I15/2) at 1.5 $\mu$ m in Er <sup>3+</sup> -doped LBT glasses. <i>Optical Materials</i> , <b>2011</b> , 33, 1167-1173	3.3	25
3	Synthesis and characterization of HAp nanorods from a cationic surfactant template method. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2010</b> , 21, 2543-9	4.5	40
2	Lasing transition (4F3/2-4I11/2) at 1.06 $\mu$ m in neodymium oxide doped lithium boro tellurite glass. <i>Physica B: Condensed Matter</i> , <b>2010</b> , 405, 4696-4701	2.8	29
1	Two-dimensional material inks. <i>Nature Reviews Materials</i> ,	7.3	11